

ABSTRACT

A transmission/reception apparatus capable of preventing degradation in system capacity, improving system throughput, and minimizing power consumption of an apparatus is disclosed. In this apparatus, a propagation path determining section (131) determines a propagation path state in all the regions in the used frequency band of a received multicarrier signal based on propagation path estimation information such as a channel estimation value and the like calculated in a propagation path estimating section (126), and specifies a frequency region having a good propagation path state from the used frequency band of OFDM. More specifically, the used frequency band is divided into a plurality of frequency bands (subbands), each comprised of smaller predetermined bandwidth, and by selecting a subband having a good propagation path state in the propagation path determining section (131), a frequency region having the good propagation path state is specified. A transmitting section (110) reports the subband information to a base station.